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New Mexico's Timber Production and Mill Residue, 1986

William H. McLain



THE AUTHOR

WILLIAM H. McLAIN is a forester in the Forest Survey Research Work Unit at the Intermountain Research Station. His primary area of responsibility is inventory and special projects. He holds a B.S. degree in forestry from Oklahoma State University, Stillwater, and has done graduate work in economics at Weber State College, Ogden, UT. He began his Forest Service career in 1968 with the Intermountain Station.

ACKNOWLEDGMENTS

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RESEARCH SUMMARY

New Mexico's timber production in 1986 was 30.1 million cubic feet, down 17 percent from 1974. Sawlog production was 27.8 million cubic feet. The mill residue volume was estimated at 22.6 million cubic feet. The volume of residue used was 18.2 million cubic feet.

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INTRODUCTION

This bulletin reports the estimated timber production and mill residue of New Mexico in 1986, coinciding with the year of forest inventory.

The data for this report (see tables 1 through 21) were obtained by canvassing primary wood processing plants in 1987. These plants were identified from "Wood Industries of New Mexico: A Guide to Wood Using Industries, 1983," updated by the New Mexico Energy, Minerals, and Natural Resources Department, Forestry Division. In addition to canvassing the resident mills, those firms outside New Mexico but consuming timber products that originated within the State were also contacted. In both cases, mill operators were asked to supply information about the timber used by them during 1986. This information included ownership and county of origin of timber products consumed, species, type of product, and an estimate of mill residue produced by type. Appendix I includes conversion factors used in this report, and appendix II is a list of the participating primary wood processors.

TIMBER PRODUCTION

In 1986, New Mexico's timber production, excluding fuelwood, was 30.1 million cubic feet, down 17 percent from 1974's 36.1 million cubic feet, which included fuelwood (fig. 1). Sawlogs continued to be the predominant product (table 1), accounting for 93 percent (27.8 million cubic feet) of the volume of all industrial roundwood harvested and about matching the 1974 sawlog production (fig. 2). The reported volume of other products, consisting of posts, corral poles, utility poles, round pulpwood, house logs, excelsior bolts, and fiber logs, was 2.2 million cubic feet. This was down substantially from the 8.2 million cubic feet produced in 1974 (the 1974 estimate included fuelwood; the 1986 estimate does not). Of the reported timber products, 77 percent went to mills with annual production capacities exceeding 10 million board feet, lumber tally (table 21). Ponderosa pine (*Pinus ponderosa*) (20.6 million cubic feet) made up 69 percent of the harvest (table 1). Live trees provided 99 percent (29.7 million cubic feet) of the timber production. Growing stock removals due to harvest were 31.3 million cubic feet. (Removals factor derived from data collected on logging operations in New Mexico. This will be addressed in a separate publication.) Sawtimber removals (factor equaled 1) were 166.2 million board feet, Scribner rule, the same as the board-foot Scribner production.

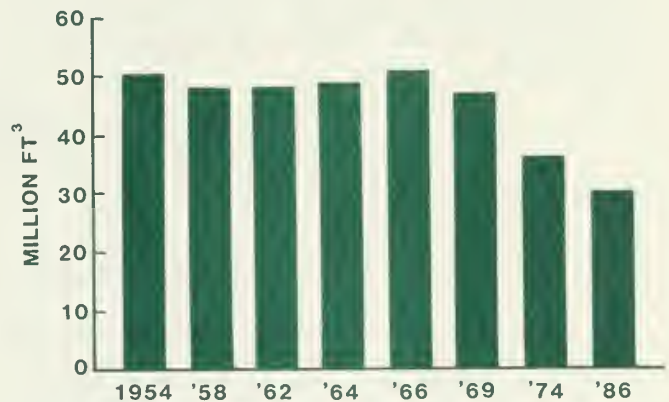


Figure 1—New Mexico's timber production by selected years (Setzer and Barrett 1977; Setzer 1971). The 1986 estimate does not include fuelwood; estimates from other years do.

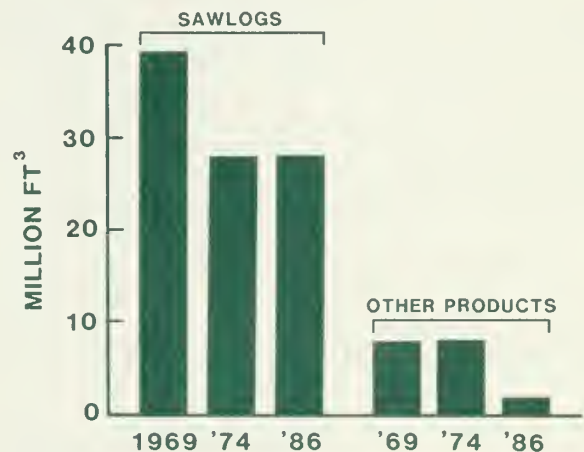


Figure 2—New Mexico's timber production by product for selected years (Setzer and Barrett 1977; Setzer 1971). The "other products" category includes: for 1969, mine timbers, posts, fuelwood, and miscellaneous farm timbers; for 1974, mine timbers, posts, fuelwood, miscellaneous farm timbers, commercial poles, and house logs; for 1986, posts, corral poles, utility poles, round pulpwood, house logs, excelsior bolts, and fiber logs. Estimates of fuelwood harvest for 1969 and 1974, thought to be small, cannot be found except as combined with other products. The fuelwood harvest estimate for 1986, a significant volume, is treated in a separate publication.

Rio Arriba County provided 42 percent (12.6 million cubic feet) of New Mexico's timber harvest in 1986 (table 7), equaling the production of the next four highest producers: Catron, Otero, Cibola, and San Juan Counties (figs. 3 and 4). Sawlog production increased in Rio Arriba and San Juan Counties, decreased in Catron, Otero, and Sandoval Counties, and did a little of each in Cibola County compared to past years (fig. 4). (The 1986 production of Cibola County is compared to previous years' production of Valencia County. The timber-producing region of Valencia County became Cibola County in 1981.)

National Forest lands accounted for 84 percent of the timber products harvested in 1986 (table 4), compared to 61 percent in 1974 and 50 percent in 1966 (Setzer and Barrett 1977).

MILL RESIDUE

The estimated sawlog harvest for 1986 (27.8 million cubic feet) about equaled the 1974 sawlog harvest (27.9 million cubic feet). The mill residue productions were also about equal: 22.6 million cubic feet in 1986 and 21.9 million cubic feet in 1974. However, the volume of mill residue reportedly used differed significantly between the 2 years. In 1986, 18.2 million cubic feet, or 81 percent of the total available, was sold, used, or given away as pulp chips or board fiber, industrial or household fuel, landscaping material, livestock bedding, mulch, lawn filler, or absorbent (table 19). In 1974, 50 percent of the mill residue volume was used (fig. 5).

Mill residue estimates are a mixture of volumes reported directly by the mills, in varying units of measure, plus those derived by applying factors to reported log volume receipts (see appendix I, "Conversion Factors").

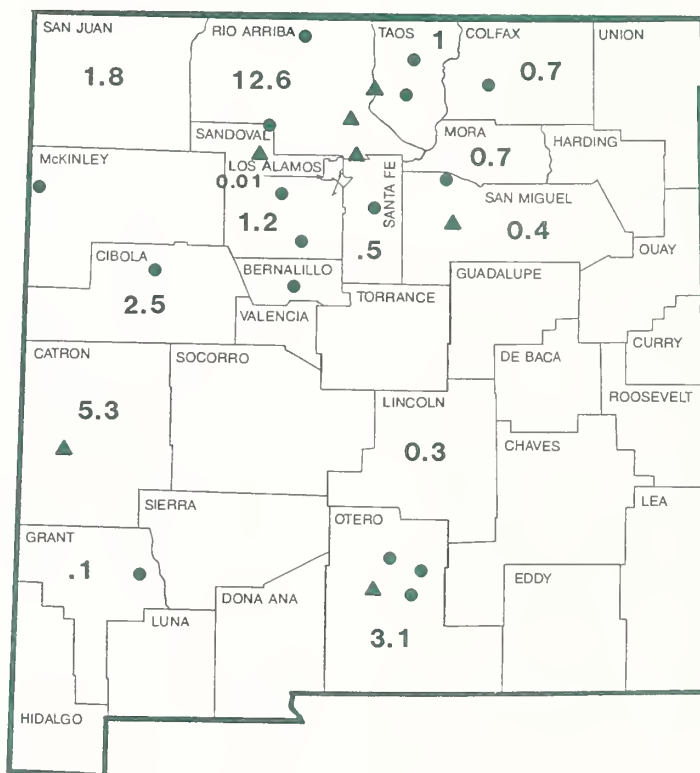


Figure 3—Timber production by county in millions of cubic feet and locations of primary wood processors in New Mexico, 1986 (from mill canvass respondents). Key: ● = 1 mill; ▲ = 2 mills.

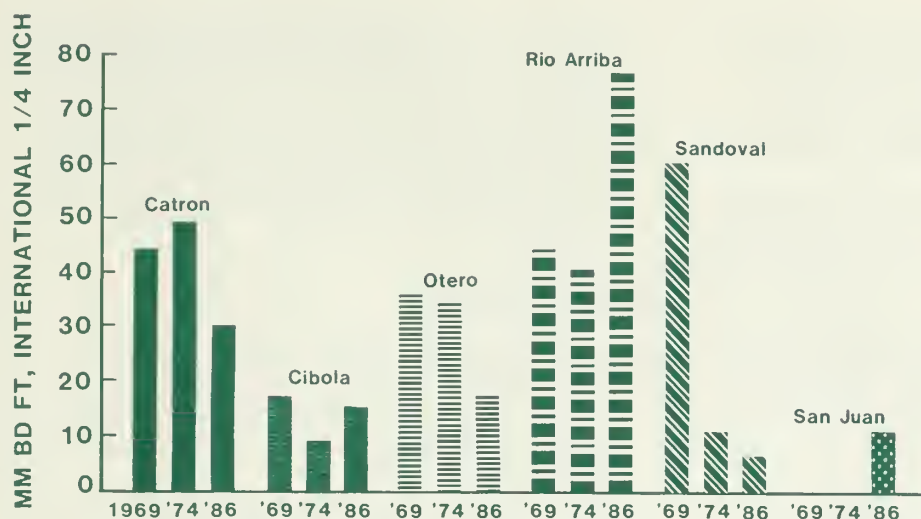


Figure 4—A comparison of mill receipts of sawlogs from New Mexico timberlands by selected county of origin for a selected 3 years (Setzer and Barrett 1977; Setzer 1971). (The 1986 production of Cibola county is compared to the 1974 and 1969 production of Valencia county. The timber producing region of Valencia county became Cibola county in 1981.)

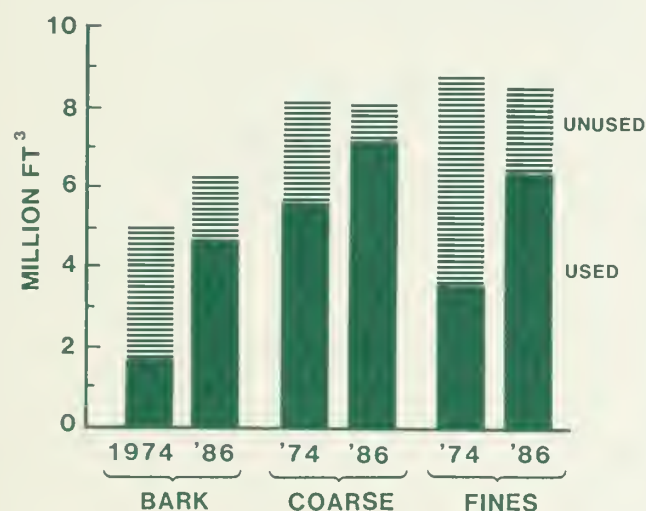


Figure 5—A comparison of used and unused residue from mills in New Mexico, 1974 and 1986, in million cubic feet (1974 data from Setzer and Barrett 1977).

PRIMARY WOOD PROCESSORS

Numbers of primary wood processing plants responding to the 1987 canvass were:

| | |
|------------------------------|----|
| Sawmills | 25 |
| Sawmill/post and pole yard | 1 |
| House log plant | 2 |
| Post and pole treating plant | 1 |
| Fiberboard plant | 1 |
| Excelsior plant | 1 |

TERMINOLOGY

Bone dry units—2,400 pounds.

Coarse residue—That part of sawmill or mill residue suitable for chipping, such as slabs, edgings, and trimmings.

Fine residue—That part of sawmill or mill residue that is finer than coarse residue and consists of sawdust and shavings.

Growing-stock removals (in this publication)—The growing-stock volume removed from inventory by harvesting. Consists of logging residue and the growing-stock volume of products.

Growing-stock trees (in this publication)—Live sawtimber trees and poletimber trees meeting specified standards of quality and vigor; excludes cull trees.

Growing-stock volume—Net cubic-foot volume in live poletimber-size and sawtimber-size growing-stock trees from a 1-foot stump to a minimum 4-inch top (of central stem) outside bark or to the point where the central stem breaks into limbs.

Industrial wood products—All timber products except fuelwood.

Logging residue—The unused growing-stock or sawtimber volume of trees cut or killed by logging and left in the woods.

M—Thousand.

Mbf—Thousand board feet.

Mill residue—Wood material from primary manufacturing plants not utilized for the mill's primary product. Includes bark, slabs, edgings, trimmings, miscuts, sawdust, and shavings.

Poletimber trees—Live trees of timber species at least 5 inches diameter at breast height (d.b.h.) but smaller than sawtimber size.

Removals (in this publication)—The growing-stock and sawtimber volume removed from the inventory by harvesting. Consists of logging residue and the growing-stock and sawtimber volume of products.

Sawlog portion—That part of the bole of sawtimber trees between a 1-foot stump and the sawlog top.

Sawlog top—The portion of the bole of sawtimber trees above which a sawlog cannot be produced. The minimum sawlog top is 7 inches diameter outside bark (d.o.b.) for softwoods and 9 inches d.o.b. for hardwoods.

Sawtimber product volume—The sawtimber volume in timber products.

Sawtimber removals (in this publication)—The sawtimber volume removed from inventory by harvesting. Consists of logging residue and the sawtimber volume of products.

Sawtimber trees—Live trees of timber species meeting regional size and defect specifications. Softwood trees must be at least 9 inches d.b.h. and hardwood trees 11 inches d.b.h.

Sawtimber volume—Net volume in board feet of the sawlog portion of live sawtimber trees.

Timber production—The harvested volume of timber products. Also called industrial roundwood production or industrial wood production. Timber products or industrial roundwood (products) refer to logs, bolts, or other round sections cut from trees for industrial or

consumer use and delivered “in the round” as logs or bolts to sawmills, plants, or yards. The term “timber products,” in this report, does not include fuelwood. Included are sawlogs, pulpwood, utility poles, corral poles and posts, house logs, excelsior bolts, and fiber logs. Mine timbers, landscaping timbers, and veneer logs would be included had they been reported as harvested.

REFERENCES

- Setzer, Theodore S.; Barrett, Michael K. 1977. New Mexico timber production and mill residues, 1974. Res. Note INT-231. Ogden, UT: U.S. Department of Agriculture, Forest Service, Intermountain Forest and Range Experiment Station. 6 p.
- Setzer, Theodore S. 1971. Estimates of timber products output and plant residues, New Mexico, 1969. Res. Note INT-134. Ogden, UT: U.S. Department of Agriculture, Forest Service, Intermountain Forest and Range Experiment Station. 4 p.

FOREST SURVEY TABLES

Table 1--Cubic volume of timber products harvested in New Mexico by species and product, 1986

| Species | Product | | |
|--|---------|--------------------------------|------------------------------|
| | Sawlogs | Other ¹ products | All ² products |
| - - - - - <u>Thousand cubic feet</u> - - - - - | | | |
| True fir | 2,622 | 136 | 2,758 |
| Engelmann spruce | 839 | 142 | 981 |
| Ponderosa pine | 20,014 | 609 | 20,623 |
| Douglas-fir | 4,369 | 326 | 4,695 |
| Other softwoods ³ | -- | 6 | 6 |
| Aspen | -- | 1,032 | 1,032 |
| All species ² | 27,844 | 2,251 | 30,095 |

¹Includes posts, corral poles, utility poles, round pulpwood, house logs, excelsior bolts, and fiber logs.

²Data may not sum to totals due to truncating or rounding.

³Includes unidentified pines (possibly Mexican white pine) and limber pine.

Table 2--Board foot volume of timber products harvested in New Mexico by species and product, 1986

| Species | Product | | |
|---|---------|--------------------------------|------------------------------|
| | Sawlogs | Other ¹ products | All ² products |
| - - - - - <u>Thousand board feet, Scribner rule</u> - - - - - | | | |
| True fir | 14,503 | 756 | 15,259 |
| Engelmann spruce | 4,633 | 790 | 5,423 |
| Ponderosa pine | 110,756 | 3,034 | 113,790 |
| Douglas-fir | 24,173 | 1,814 | 25,987 |
| Other softwoods ³ | -- | 35 | 35 |
| Aspen | -- | 5,708 | 5,708 |
| All species ² | 154,065 | 12,137 | 166,202 |

¹Includes posts, corral poles, utility poles, round pulpwood, house logs, excelsior bolts, and fiber logs.

²Data may not sum to totals due to truncating or rounding.

³Includes unidentified pines (possibly Mexican white pine) and limber pine.

Table 3--Board foot volume of timber products harvested in New Mexico by species and product, 1986

| Species | Product | | All ² products |
|--|---------|--------------------------------|------------------------------|
| | Sawlogs | Other ¹ products | |
| <hr/> | | | |
| - - - <u>Thousand board feet, International $\frac{1}{4}$-inch rule</u> - - | | | |
| True fir | 16,128 | 840 | 16,968 |
| Engelmann spruce | 5,151 | 879 | 6,030 |
| Ponderosa pine | 123,159 | 3,373 | 126,532 |
| Douglas-fir | 26,881 | 2,017 | 28,898 |
| Other softwoods ³ | -- | 39 | 39 |
| Aspen | -- | 6,348 | 6,348 |
| <hr/> | | | |
| All species ² | 171,319 | 13,496 | 184,815 |

¹Includes posts, corral poles, utility poles, round pulpwood, house logs, excelsior bolts, and fiber logs.

²Data may not sum to totals due to truncating or rounding.

³Includes unidentified pines (possibly Mexican white pine) and limber pine.

Table 4--Cubic volume of timber products harvested in New Mexico by owner and product, 1986

| Owner | Product | | All ² products |
|--|---------|--------------------------------|------------------------------|
| | Sawlogs | Other ¹ products | |
| - - - - - <u>Thousand cubic feet</u> - - - - - | | | |
| National Forest | 24,290 | 1,069 | 25,359 |
| Bureau of Land Management | 7 | -- | 7 |
| Private | 3,547 | 1,182 | 4,729 |
| All owners ² | 27,844 | 2,251 | 30,095 |

¹Includes posts, corral poles, utility poles, round pulpwood, house logs, excelsior bolts, and fiber logs.

²Data may not sum to totals due to truncating or rounding.

Table 5--Board foot volume of timber products harvested in New Mexico by owner and product, 1986

| Owner | Product | | |
|--|---------|--------------------------------|------------------------------|
| | Sawlogs | Other ¹ products | All ² products |
| - - - - - Thousand board feet, Scribner rule - - - - - | | | |
| National Forest | 134,403 | 5,587 | 139,990 |
| Bureau of Land Management | 40 | -- | 40 |
| Private | 19,622 | 6,550 | 26,172 |
| All owners ² | 154,065 | 12,137 | 166,202 |

¹Includes posts, corral poles, utility poles, round pulpwood, house logs, excelsior bolts, and fiber logs.

²Data may not sum to totals due to truncating or rounding.

Table 6--Board foot volume of timber products harvested in New Mexico by owner and product, 1986

| Owner | Product | | |
|--|---------|--------------------------------|------------------------------|
| | Sawlogs | Other ¹ products | All ² products |
| - - - Thousand board feet, International 1/4-inch rule - - - | | | |
| National Forest | 149,459 | 6,212 | 155,671 |
| Bureau of Land Management | 44 | -- | 44 |
| Private | 21,816 | 7,284 | 29,100 |
| All owners ² | 171,319 | 13,496 | 184,815 |

¹Includes posts, corral poles, utility poles, round pulpwood, house logs, excelsior bolts, and fiber logs.

²Data may not sum to totals due to truncating or rounding.

Table 7--Cubic volume of timber products harvested in New Mexico by product and county, 1986

| Product | County | | | | | | | | | | | | | | |
|-----------------------------|--------|--------|--------|-------|---------|------------|------|-------|---------------------|----------|----------|------------|----------|------|---------------------------|
| | Catron | Cibola | Colfax | Grant | Lincoln | Los Alamos | Mora | Otero | Rio Arriba | Sandoval | San Juan | San Miguel | Santa Fe | Taos | All ¹ counties |
| | - | - | - | - | - | - | - | - | Thousand cubic feet | - | - | - | - | - | - |
| Sawlogs | 5,003 | 2,504 | -- | 117 | 261 | 10 | 357 | 2,906 | 12,506 | 1,041 | 1,756 | -- | 517 | 866 | 27,844 |
| Other products ² | 331 | -- | 723 | -- | -- | -- | 315 | 164 | 94 | 140 | -- | 371 | -- | 113 | 2,251 |
| All products ¹ | 5,334 | 2,504 | 723 | 117 | 261 | 10 | 672 | 3,070 | 12,600 | 1,181 | 1,756 | 371 | 517 | 979 | 30,095 |

¹Data may not sum to totals due to truncating or rounding.²Includes posts, corral poles, utility poles, round pulpwood, house logs, excelsior bolts, and fiber logs.

Table 8--Board foot volume of timber products harvested in New Mexico by product and county, 1986

| Product | County | | | | | | | | | | | | | All counties | |
|-----------------------------|------------------------------------|--------|--------|-------|---------|---------------|-------|--------|---------------|----------|-------------|---------------|-------------|-----------------|---------|
| | Catron | Cibola | Colfax | Grant | Lincoln | Los Alamos | Mora | Otero | Rio Arriba | Sandoval | San Juan | San Miguel | Santa Fe | | Taos |
| | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | Thousand board feet, Scribner rule | | | | | | | | | | | | | | |
| Sawlogs | 27,685 | 13,857 | -- | 650 | 1,450 | 54 | 1,973 | 16,075 | 69,197 | 5,757 | 9,713 | -- | 2,865 | 4,789 | 154,065 |
| Other products ² | 2,109 | -- | 4,000 | -- | -- | -- | 1,750 | 907 | 520 | 175 | -- | 2,050 | -- | 626 | 12,137 |
| All products ¹ | 29,794 | 13,857 | 4,000 | 650 | 1,450 | 54 | 3,723 | 16,982 | 69,717 | 5,932 | 9,713 | 2,050 | 2,865 | 5,415 | 166,202 |

¹Data may not sum to totals due to truncating or rounding.²Includes posts, corral poles, utility poles, round pulpwood, house logs, excelsior bolts, and fiber logs.

Table 9--Board foot volume of timber products harvested in New Mexico by product and county, 1986

| Product | County | | | | | | | | | | | | | | All ¹ counties |
|-----------------------------|--|--------|--------|-------|---------|---------------|-------|--------|---------------|----------|-------------|---------------|-------------|-------|------------------------------|
| | Catron | Cibola | Colfax | Grant | Lincoln | Los Alamos | Mora | Otero | Rio Arriba | Sandoval | San Juan | San Miguel | Santa Fe | Taos | |
| | Thousand board feet, International 4-inch rule | | | | | | | | | | | | | | |
| Sawlogs | 30,788 | 15,409 | -- | 722 | 1,611 | 60 | 2,193 | 17,874 | 76,948 | 6,401 | 10,801 | -- | 3,186 | 5,326 | 171,319 |
| Other products ² | 2,345 | -- | 4,448 | -- | -- | -- | 1,946 | 1,009 | 578 | 194 | -- | 2,280 | -- | 696 | 13,496 |
| All products ¹ | 33,133 | 15,409 | 4,448 | 722 | 1,611 | 60 | 4,139 | 18,883 | 77,526 | 6,595 | 10,801 | 2,280 | 3,186 | 6,022 | 184,815 |

¹Data may not sum to totals due to truncating or rounding.²Includes posts, corral poles, utility poles, round pulpwood, house logs, excelsior bolts, and fiber logs.

Table 10--Cubic volume of timber products harvested in New Mexico by species and county, 1986

| Species | County | | | | | | | | | | | | | | All ¹ counties |
|---------|--------|--------|--------|-------|---------|---------------|------|-------|---------------|----------|-------------|---------------|-------------|------|------------------------------|
| | Catron | Cibola | Colfax | Grant | Lincoln | Los Alamos | Mora | Otero | Rio Arriba | Sandoval | San Juan | San Miguel | Santa Fe | Taos | |
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¹Data may not sum to totals due to truncating or rounding.²Includes unidentified pines (possibly Mexican white pine) and limber pine.

Table 11--Board foot volume of timber products harvested in New Mexico by species and county, 1986

| Species | County | | | | | | | | | | | | | | All ¹ counties |
|---------|--------|--------|--------|-------|---------|---------------|------|-------|---------------|----------|-------------|---------------|-------------|------|------------------------------|
| | Catron | Cibola | Colfax | Grant | Lincoln | Los Alamos | Mora | Otero | Rio Arriba | Sandoval | San Juan | San Miguel | Santa Fe | Taos | |
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¹Data may not sum to totals due to truncating or rounding.

²Includes unidentified pines (possibly Mexican white pine) and limber pine.

Table 12--Board foot volume of timber products harvested in New Mexico by species and county, 1986

| Species | County | | | | | | | | | | | | | | All ¹ counties |
|---------|--------|--------|--------|-------|---------|---------------|------|-------|---------------|----------|-------------|---------------|-------------|------|------------------------------|
| | Catron | Cibola | Colfax | Grant | Lincoln | Los Alamos | Mora | Otero | Rio Arriba | Sandoval | San Juan | San Miguel | Santa Fe | Taos | |
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¹Data may not sum to totals due to truncating or rounding.

²Includes unidentified pines (possibly Mexican white pine) and limber pine.

Table 13--Cubic volume of timber products harvested in New Mexico by owner and county, 1986

| Owner | County | | | | | | | | | | | | | | |
|-------|--------|--------|--------|-------|---------|------------|------|-------|------------|----------|----------|------------|----------|------|--------------|
| | Catron | Cibola | Colfax | Grant | Lincoln | Los Alamos | Mora | Otero | Rio Arriba | Sandoval | San Juan | San Miguel | Santa Fe | Taos | All counties |
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¹Data may not sum to totals due to truncating or rounding.

Table 14--Board foot volume of timber products harvested in New Mexico by owner and county, 1986

| Owner | County | | | | | | | | | | | | | | |
|---------------------------|------------------------------------|--------|--------|-------|---------|------------|-------|--------|------------|----------|----------|------------|----------|-------|--------------|
| | Catron | Cibola | Colfax | Grant | Lincoln | Los Alamos | Mora | Otero | Rio Arriba | Sandoval | San Juan | San Miguel | Santa Fe | Taos | All counties |
| | Thousand board feet, Scribner rule | | | | | | | | | | | | | | |
| National Forest | 29,794 | 13,857 | -- | 650 | -- | 54 | 135 | 15,482 | 69,079 | 1,774 | -- | 1,750 | 2,000 | 5,415 | 139,990 |
| Bureau of Land Management | -- | -- | -- | -- | -- | -- | -- | -- | -- | 40 | -- | -- | -- | -- | 40 |
| Private | -- | -- | 4,000 | -- | 1,450 | -- | 3,588 | 1,500 | 638 | 4,118 | 9,713 | 300 | 865 | -- | 26,172 |
| All owners ¹ | 29,794 | 13,857 | 4,000 | 650 | 1,450 | 54 | 3,723 | 16,982 | 69,717 | 5,932 | 9,713 | 2,050 | 2,865 | 5,415 | 166,202 |

¹Data may not sum to totals due to truncating or rounding.

Table 15--Board foot volume of timber products harvested in New Mexico by owner and county, 1986

| Owner | County | | | | | | | | | | | | | | |
|-------|--------|--------|--------|-------|---------|------------|------|-------|------------|----------|----------|------------|----------|------|--------------|
| | Catron | Cibola | Colfax | Grant | Lincoln | Los Alamos | Mora | Otero | Rio Arriba | Sandoval | San Juan | San Miguel | Santa Fe | Taos | All counties |
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¹Data may not sum to totals due to truncating or rounding.

Table 16--Cubic volume of timber products harvested in New Mexico by species and owner, 1986

| Species | Owner | | | Thousand cubic feet |
|------------------------------|-----------------|---------------------------|---------|---------------------|
| | National Forest | Bureau of Land Management | Private | |
| True fir | 2,509 | -- | 249 | 2,758 |
| Engelmann spruce | 764 | -- | 217 | 981 |
| Ponderosa pine | 17,701 | 7 | 2,915 | 20,623 |
| Douglas-fir | 4,089 | -- | 606 | 4,695 |
| Other softwoods ² | 3 | -- | 3 | 6 |
| Aspen | 293 | -- | 739 | 1,032 |
| All species ¹ | 25,359 | 7 | 4,729 | 30,095 |

¹Data may not sum to totals due to truncating or rounding.

²Includes unidentified pines (possibly Mexican white pine) and limber pine.

Table 17--Board foot volume of timber products harvested in New Mexico by species and owner, 1986

| Species | Owner | | | All ¹ owners |
|------------------------------|--------------------|------------------------------|------------------------------------|----------------------------|
| | National Forest | Bureau of Land Management | Private | |
| | - - - - - | - - - - - | Thousand board feet, Scribner rule | - - - - - |
| True fir | 13,882 | -- | 1,377 | 15,259 |
| Engelmann spruce | 4,226 | -- | 1,197 | 5,423 |
| Ponderosa pine | 97,608 | 40 | 16,142 | 113,790 |
| Douglas-fir | 22,637 | -- | 3,350 | 25,987 |
| Other softwoods ² | 17 | -- | 18 | 35 |
| Aspen | 1,620 | -- | 4,088 | 5,708 |
| All species ¹ | 139,990 | 40 | 26,172 | 166,202 |

¹Data may not sum to totals due to truncating or rounding.²Includes unidentified pines (possibly Mexican white pine) and limber pine.

Table 18--Board foot volume of timber products harvested in New Mexico by species and owner, 1986

| Species | Owner | | | All ¹ owners |
|------------------------------|--------------------|------------------------------|--|----------------------------|
| | National Forest | Bureau of Land Management | Private | |
| | - - - - - | - - - - - | Thousand board feet, International 1/4-inch rule | - - - - - |
| True fir | 15,438 | -- | 1,530 | 16,968 |
| Engelmann spruce | 4,699 | -- | 1,331 | 6,030 |
| Ponderosa pine | 108,540 | 44 | 17,948 | 126,532 |
| Douglas-fir | 25,173 | -- | 3,725 | 28,898 |
| Other softwoods ² | 19 | -- | 20 | 39 |
| Aspen | 1,802 | -- | 4,546 | 6,348 |
| All species ¹ | 155,671 | 44 | 29,100 | 184,815 |

¹Data may not sum to totals due to truncating or rounding.²Includes unidentified pines (possibly Mexican white pine) and limber pine.

Table 19--Estimated volume of used and unused residue from mills in New Mexico, 1986

| Residue | Used | | | | Total used | Total unused | Total produced |
|---------------------|---------------------------------|---------------|--------------|-------|---------------|-----------------|-------------------|
| | Product | | | | | | |
| | Pulp and boards | Plant fuel | Home fuel | Other | | | |
| | ----- Thousand cubic feet ----- | | | | | | |
| Bark | -- | 2,204 | 132 | 2,326 | 4,662 | 1,575 | 6,237 |
| Coarse ¹ | 6,486 | 257 | 433 | -- | 7,176 | 807 | 7,983 |
| Fines ² | 4,436 | 1,351 | -- | 604 | 6,391 | 2,000 | 8,391 |
| Total | 10,922 | 3,812 | 565 | 2,930 | 18,229 | 4,382 | 22,611 |

¹Material suitable for chipping, such as slabs, edgings, and trim.²Sawdust and planer shavings.

Table 20--Estimated volume of used and unused residue from mills in New Mexico, 1986

| Residue | Used | | | | Total used | Total unused | Total produced |
|---------------------|----------------------------|---------------|--------------|--------|---------------|-----------------|-------------------|
| | Product | | | | | | |
| | Pulp and boards | Plant fuel | Home fuel | Other | | | |
| | ----- Bone dry units ----- | | | | | | |
| Bark | -- | 22,033 | 1,314 | 23,265 | 46,612 | 15,750 | 62,362 |
| Coarse ¹ | 64,853 | 2,565 | 4,308 | -- | 71,726 | 8,039 | 79,765 |
| Fines ² | 44,329 | 13,504 | -- | 6,048 | 63,881 | 19,997 | 83,878 |
| Total | 109,182 | 38,102 | 5,622 | 29,313 | 182,219 | 43,786 | 226,005 |

¹Material suitable for chipping, such as slabs, edgings, and trim.²Sawdust and planer shavings.

Table 21--Cubic volume of timber products harvested in New Mexico by size of mill, plant, or yard receiving products, 1986

| Mill capacity | Production |
|----------------------------------|--------------------|
| Million board feet, lumber tally | Million cubic feet |
| More than 10 | 23.2 |
| 5.1 - 10 | 4.8 |
| 1.1 - 5 | .8 |
| 1 or less | 1.4 |
| Total ¹ | 30.1 |

¹Data may not sum to totals due to truncating or rounding.

APPENDIX I: CONVERSION FACTORS

Table 22--Conversion factors used in preparing volume figures for this report

| Product | Cords | Cubic feet | Board feet | |
|-----------------------------------|-------|------------|---------------|---------------------------|
| | | | Scribner rule | International ¼-inch rule |
| Sawlogs ¹ | -- | 1.0 | 5.533 | 6.155 |
| Pulpwood ² | 1.0 | 78.6 | 500.000 | 556.000 |
| Pulpwood | -- | 1.0 | 6.361 | 7.073 |
| Utility poles ³ | | 1.0 | 5.000 | 5.560 |
| Posts & corral poles ⁴ | -- | 1.0 | .354 | .394 |

Mill residues

BDU's⁵ of mill residue per Mbf (Scribner)⁶ of sawlogs

| | |
|-----------------|------|
| Coarse | 0.55 |
| Sawdust | 0.33 |
| Planer shavings | 0.29 |
| Bark | 0.30 |

¹From timber utilization data collected on active logging operations in New Mexico in 1987.

²Standard conversion for New Mexico from Forest Service, U.S. Department of Agriculture.

³From mill canvass data, converted to cubic feet and board feet based on reported dimensions.

⁴Posts and corral poles with small end diameters less than 6 inches have zero board feet.

⁵Bone dry unit; 1 BDU = 2,400 lb = 100 cubic feet = 1.2 tons.

⁶Thousand board feet, Scribner rule.

APPENDIX II: NEW MEXICO DIRECTORY OF PRIMARY WOOD PROCESSORS

The information in this appendix was supplied by mill canvass respondents.

| County | Name and mill location | Type of plant |
|------------|--|---------------|
| Bernalillo | Bates Lumber Co. P.O. Box 7095 Albuquerque, NM 87194 505-247-1481 Mill location: 15 miles south of Albuquerque on east side of 2nd St. | Sawmill |
| Cibola | Blevins Lumber Company P.O. Box 548 Grants, NM 87020 505-287-8010 | Sawmill |
| Catron | Griffin's Wood Products HCR 1, Box 201 Reserve, NM 87830 505-533-6360 Glen Griffin, Owner | Sawmill |
| Catron | Stone Containers Box 445 Reserve, NM 87830 505-533-6321 | Sawmill |
| Colfax | Pacific Stud and Lumber Co. P.O. Box 488 Cimarron, NM 87714 505-376-2295 Mill location: Hwy 64-Cimarron | Sawmill |
| Grant | Fowler Lumber Co. P.O. Box 47 Mimbres, NM 88049 505-536-9434 John Fowler, Owner | Sawmill |
| McKinley | Navajo Forest Products Industries P.O. Box 1280 Navajo, NM 87328 505-777-2211 | Sawmill |
| Otero | Chippeway Lumber P.O. Box 162 Cloudcroft, NM 88317 505-682-2407 | Sawmill |
| Otero | Dees Sawmill P.O. Box 24 Mayhill, NM 88339 505-687-3633 Bill Dees, Owner | Sawmill |

| County | Name and mill location | Type of plant |
|------------|---|---------------|
| Otero | Goss and Goss Lumber Co. Weed, NM 88354 505-687-3648 Jimmy Goss | Sawmill |
| Otero | Vebco, Inc. 130 Montoya Rd. El Paso, TX 79932 915-581-8132 Mill location: Alamagordo, NM | Excelsior |
| Otero | White Sands Forest Products Box 209 Alamagordo, NM 88310 505-437-1671 Mike Hess, Manager Mill Location: N. Eddy Rd. - Alamagordo | Sawmill |
| Rio Arriba | Conklin Lumber Co. P.O. Box 696 Tres Piedras, NM 87577 505-758-4620 Donald L. Conklin, Owner | Sawmill |
| Rio Arriba | Conley Lumber P.O. Box 3474 FS Espanola, NM 87533 505-753-7746 | Sawmill |
| Rio Arriba | Duke City Lumber Co. P.O. Box 25807 Albuquerque, NM 87125 505-848-3649 Mill location: Espanola, NM | Sawmill |
| Rio Arriba | Duke City Lumber Co. P.O. Box 25807 Albuquerque, NM 87125 505-848-3649 Mill location: Vallecitos, NM | Sawmill |
| Rio Arriba | Kuykendall Lumber P.O. Box 734 Tres Piedras, NM 87577 505-758-3298 Gene Kuykendall, Owner | Sawmill |
| Rio Arriba | W. H. Moore Cash Lumber P.O. Box 3706 Fairview St. Espanola, NM 87533 505-753-5717 W. H. Moore, Owner/Partner Mill location: Chama Hwy RT 285, Hernandez, NM | Sawmill |

| County | Name and mill location | Type of plant |
|------------|---|---------------|
| Rio Arriba | Vaughn Sawmill Inc. P.O. Box 246 Vallecitos, NM 87581 505-582-4227 Carroll Vaughn, President | Sawmill |
| Rio Arriba | Wellyn, Inc. P.O. Box 331 Chama, NM 87520 505-756-2344 Jimmy Carson, Partner | House log |
| Sandoval | Blackjack Timber Inc. MTN. Rt. Box 3 Jemez Springs, NM 87027 505-829-3860 Wayne W. Lewis, President | Sawmill |
| Sandoval | Duke City Lumber Co. P.O. Box 25807 Albuquerque, NM 87125 505-848-3649 Mill location: Cuba | Sawmill |
| Sandoval | New Mexico Log Homes P.O. Box 342 Regina, NM 87046 505-289-3959 Robert Applegate, Owner | Sawmill |
| Sandoval | Shollenbarger Wood Treating P.O. Box 1084 Bernalillo, NM 87004 505-867-2343 Carl Monroe, General Mgr. | Post and Pole |
| Sandoval | Young's Sawmill P.O. Box 158 Cuba, NM 87013 505-289-3479 | Sawmill |

| County | Name and mill location | Type of plant |
|------------|---|-----------------------------------|
| San Miguel | Air-Lock Log Co., Inc. P.O. Box 2506 Las Vegas, NM 87701 505-425-8888 Susan Drye, Owner | House log |
| San Miguel | Bartley Mill and Lumber Co. Rt. 1, Box 18 Rociada, NM 87742 505-425-7038 John F. Bartley, Owner | Sawmill/ fuelwood yard |
| San Miguel | Montana de Fibra P.O. Box 1427 Las Vegas, NM 87701 505-425-5211 | Fiber board |
| Santa Fe | Norton Hill Wood Co., Inc. 701 Airport Rd. Santa Fe, NM 87501 505-471-2456 John Alexander, Owner | Sawmill/ post and pole yard |
| Taos | LaLama - Junction Sawmill P.O. Box 31 Questa, NM 87556 505-586-1084 Abenacio Cordova, Owner | Sawmill |
| Taos | J. L. Romero Sawmill and Lumber Co. P.O. Box 332 Taos, NM 87571 505-758-4772 Julian L. Romero, Owner | Sawmill |

McLain, William H. 1989. New Mexico's timber production and mill residue, 1986. Resour. Bull. INT-59. Ogden, UT: U.S. Department of Agriculture, Forest Service, Intermountain Research Station. 17 p.

Reports 1986 timber production estimates for New Mexico by county, species, owner, and product. Also reports estimates of mill residue by use. Data obtained by canvassing primary wood processors in New Mexico and out-of-State mills receiving logs harvested in New Mexico.

KEYWORDS: timber products output, industrial roundwood, primary wood products

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